

ATIC, AFCIN-4E1, 30 Jan 58, Subj: (U) Proposed MTI Circuitry

RCERD 1st Ind MAR 31 1958

HEADQUARTERS ROME AIR DEVELOPMENT CENTER, United States Air Force,
ATTN: RCERD, Griffiss Air Force Base, New York

TO: Commander, Air Technical Intelligence Center, United States Air Force. ATTN: AFCIN-4EL, Wright-Patterson Air Force Base, Ohio

1. Reference is made to the inclosed memo entitled "Moving
Target Indicator - Proposed by [redacted]

2. The technique is theoretically feasible in that the basic velocity information is available. Its applicability, however, is limited by the system parameters involved such as the transmitted wavelength, the velocities of interest, and the pulse width. If the effective period of the Doppler frequencies of interest is very large compared to the transmitted pulse width, it is doubtful whether an adequate signal-to-noise ratio will be available for reliable detection. Similar techniques are applicable with suitable parameters for detection of high speed ballistic missiles. (SECRET)

3. No information is available regarding patentability of the proposed system.

4. It is suggested that WADC be contacted regarding applicability of the proposed technique for airborne radar.

5. This document is classified SECRET because it discusses the contents of a technique classified SECRET.

FOR THE COMMANDER:

1 Incl
n/c

WILLIAM T. POPE
PUNCE, INC.
DIRECTOR OF PERSONNEL & GUIDANCE

USAF review(s) completed.

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